

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/076651 A1

- (51) International Patent Classification⁷: **H04Q 7/38**, H04L 29/06
- (21) International Application Number: PCT/EP2005/050599
- (22) International Filing Date: 10 February 2005 (10.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PCT/EP2004/050111
10 February 2004 (10.02.2004) EP
- (71) Applicant (for all designated States except US): FORWARD INFORMATION TECHNOLOGIES SA [CH/CH]; Via Cantonale Centro Galleria 2, CH-6928 Manno (CH).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): LENZARINI, Davide [IT/CH]; Via Cantonale Centro Galleria 2, CH-6928 Manno (CH).
- (74) Agent: BOVARD AG; Optingenstrasse 16, CH-3000 Bern 25 (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

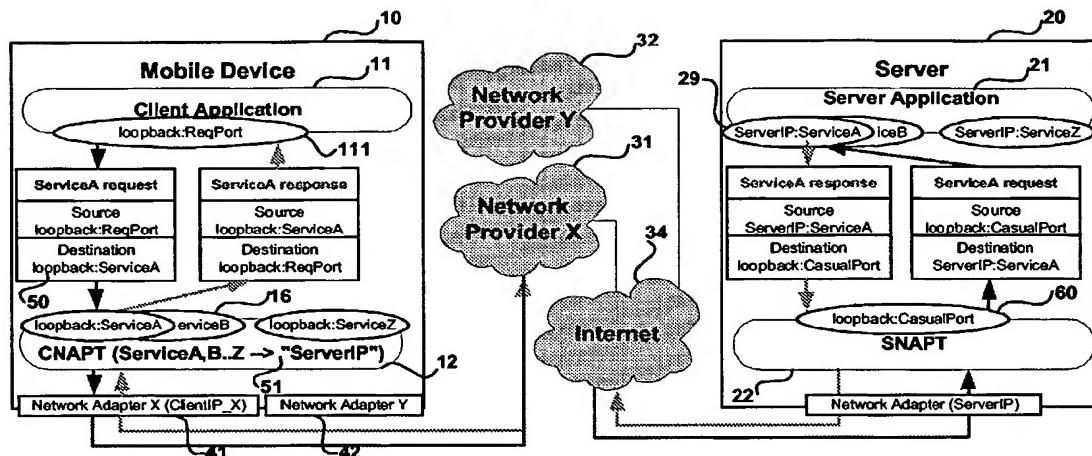
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

- (54) Title: METHOD AND SYSTEM FOR SEAMLESS HANDOVER OF MOBILE DEVICES IN HETEROGENEOUS NETWORKS



(57) **Abstract:** The invention relates to a method for seamless handover of mobile devices in heterogeneous networks. A mobile device (10) is moved between different topological network locations (30/31/32/33) and transmits and/or receives data by means of different network access technologies without the data transfer between a Client IP application (11), running on the mobile device (10), and a Server IP application (21) being interrupted, wherein the Client IP application (11) of the mobile device (10) makes a request with first data units to a client-service module (12), wherein the client service module (12) creates second data units based on the received first data units and makes a request to a server-service module (22) with the second data units, wherein the server-service module (22) creates third data units based on the received second data units and makes a request to the Server IP application (21) with the third data units to handle the data exchange between the Client IP application (11) and the Server IP application (21).

WO 2005/076651 A1